



# **2009-2010 Influenza Epidemiology and Surveillance Weekly Status Report for Kansas**

**Week Ending March 13, 2010**

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# Executive Summary

***D. Charles Hunt, MPH, State Epidemiologist and Director  
Bureau of Surveillance and Epidemiology  
Kansas Department of Health and Environment***

## **Overview**

Overall influenza activity throughout the state remains low; however, hospital admissions for pneumonia or influenza increased 20% this week. This indicator potentially denotes an increase in severe illness; however, people may be hospitalized for other causes of pneumonia in addition to influenza. Although the proportion of deaths due to pneumonia or influenza remains the same from the previous week, one death was reported in a person between the ages of 0-4 years of age.

The rate of hospital admissions per 100 bed days due to pneumonia or influenza increased. Nonetheless, the proportion of hospitalizations for patients less than five years of age remains elevated (21%) for the eighth consecutive week. The increase in hospitalizations for this age group may be due to other causes of pneumonia. We will continue to monitor all influenza surveillance data to assess any changes or trends.

## **Outpatient Visits for Influenza-like Illness (ILINet)**

Fifty-four (77%) of the 70 ILINet sites in Kansas reported data for the week ending March 13<sup>th</sup>. The statewide percentage of patients seeking care for ILI at these clinics decreased from 2.3% to 1.5% for the week ending March 13<sup>th</sup>.

One hundred and ninety-one patients were seen for influenza-like illness; 37% of those patients were less than four years of age. Overall, children and young adults (age range 0-24 years of age), represent 73% of the total outpatient visits for influenza-like illness.

Sixteen sites (23%) did not submit ILI data by the reporting deadline; the regional and statewide percentages may rise or fall after these sites submit data. Nationally, the proportion of outpatient visits for influenza-like illness (ILI) was 1.9% for the week ending March 6<sup>th</sup>.

## **Hospital Admissions for Pneumonia or Influenza (EMSystems)**

For the week ending March 13<sup>th</sup>, 71 (54%) of 132 hospitals reported 341 patients admitted for pneumonia or influenza. Although the number of hospitals reporting decreased by 11% this week, the number of admissions increased by 20%. Seventy-two (21%) of these admissions were among children less than 5 years of age. This is the eighth consecutive week in which greater than 20% of hospitalizations were among this age group.

The statewide rate of hospital admissions per 100 bed-days increased from 0.64 last week to 0.79 this week. The Kansas City metro, northeast, northwest, southwest and south central regions reported an increase in the rate of hospital admissions per 100 bed-days, while the remaining regions reported a decrease.

## **Mortality Due to Pneumonia or Influenza**

Thirty-seven (8%) of the 461 deaths reported to KDHE during the week ending March 13<sup>th</sup> were due to pneumonia or influenza. This proportion of deaths due to pneumonia or influenza remains the same from the previous week. Eighty-five percent of all deaths due to pneumonia or influenza occur in individuals aged 65 years and older; however, one death was reported in a person between the ages of 0-4 years of age.



# Executive Summary (continued)

## **Self-reported Influenza-like Illness**

No new data were available for this week's surveillance report.

## **School Absenteeism**

For the school week ending March 12<sup>th</sup>, 77 (73%) of the 105 Kansas counties reported school absenteeism data. The percentage of schools reporting 10% or greater absenteeism decreased across all school levels statewide, from 6.1% to 3.5% for elementary schools, from 8.7% to 7.7% for middle schools, and 10.3% to 5.9% for high schools. Twenty-eight (27%) counties did not submit their data by the reporting deadline; statewide and regional percentages may rise or fall after these non-reporting counties submit data. Additionally, these numbers represent total absenteeism from all causes, not only absenteeism due to influenza.

## **Laboratory-based Surveillance**

During the week ending March 13<sup>th</sup>, 42 specimens were tested at KDHE Laboratories (KHEL). Of these, 11 (26%) were positive for influenza A (2009 H1N1). The percentage of specimens positive for the pandemic strain represents a slight increase from the 24% that were positive last week; however, fewer total specimens were submitted this week. No influenza B viruses were detected.

Since October 4<sup>th</sup>, 2009 a total of 2,531 specimens have been submitted to KHEL for testing. Of these, 963 (38%) have tested positive for influenza A (2009 H1N1).

## **Population Vaccinated Against 2009 H1N1 Influenza A Virus**

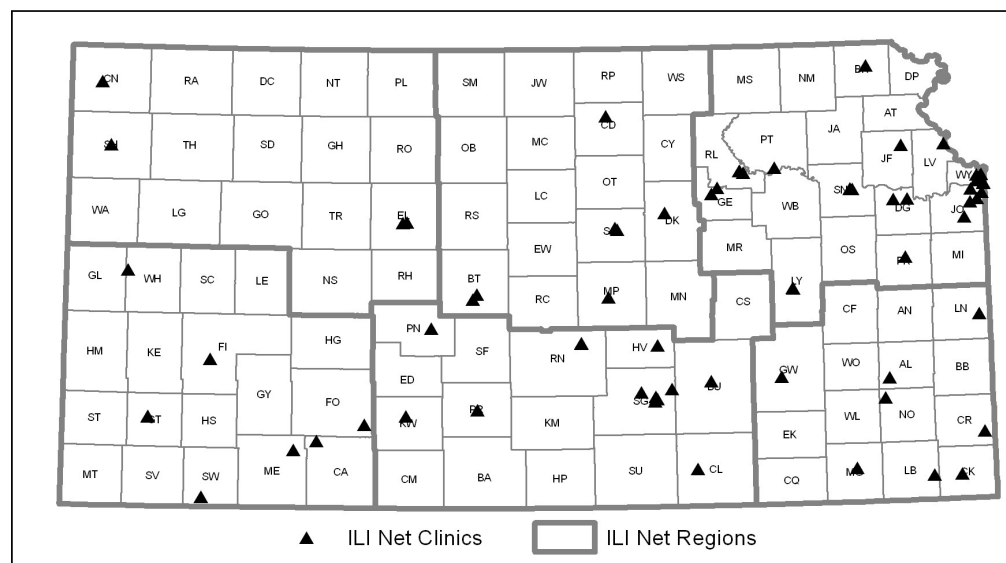
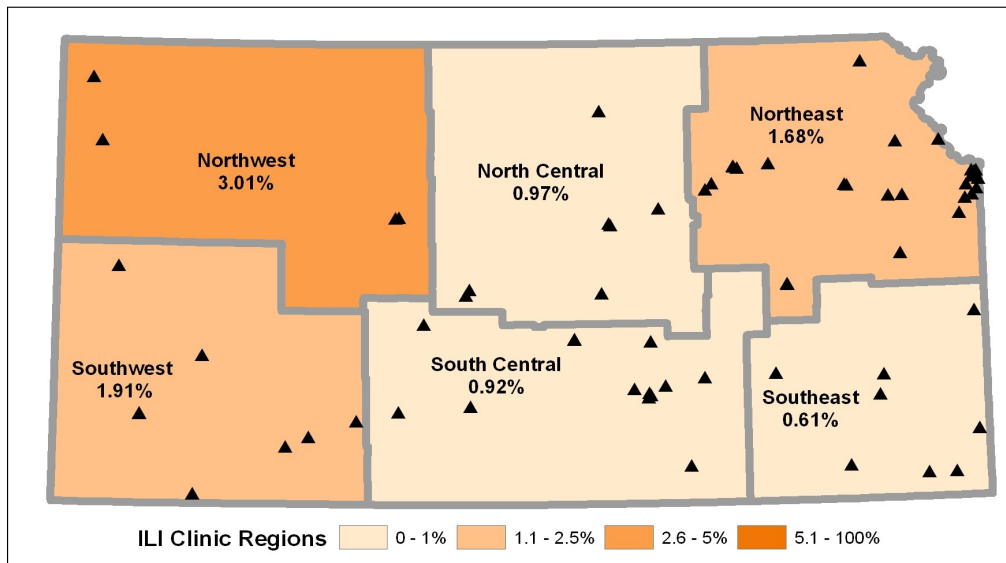
As of March 13<sup>th</sup>, 577,857 doses of 2009 H1N1 vaccine were reported to have been administered to Kansans, which comprises 20.6% of the state's population. The charts show the cumulative number of individuals vaccinated at the end of each week by region as well as the cumulative percentage of each region's population that has been immunized. The northeast (20%), south central (22%), southwest (24%), and northwest (25%) regions of the state have the highest proportion of their population vaccinated against 2009 H1N1 Influenza A virus.

It is important to note that numbers of people vaccinated are reported by the county in which they received the vaccination; therefore, cumulative numbers and rates may be skewed slightly, as individuals are divided into regions based on the site of vaccination. These charts do not account for individuals who were vaccinated in a region other than the region in which they reside. Vaccine administration data may change each week because of data submitted after the reporting deadline or because of corrections made to previously submitted data.

# Outpatient Influenza-like Illness (Surveillance Conducted via ILINet) Week ending March 13, 2010



Percentage of Visits  
for Influenza-like Illness (ILI)  
Reported by ILINet Sites, by Region  
March 7, 2010 - March 13, 2010



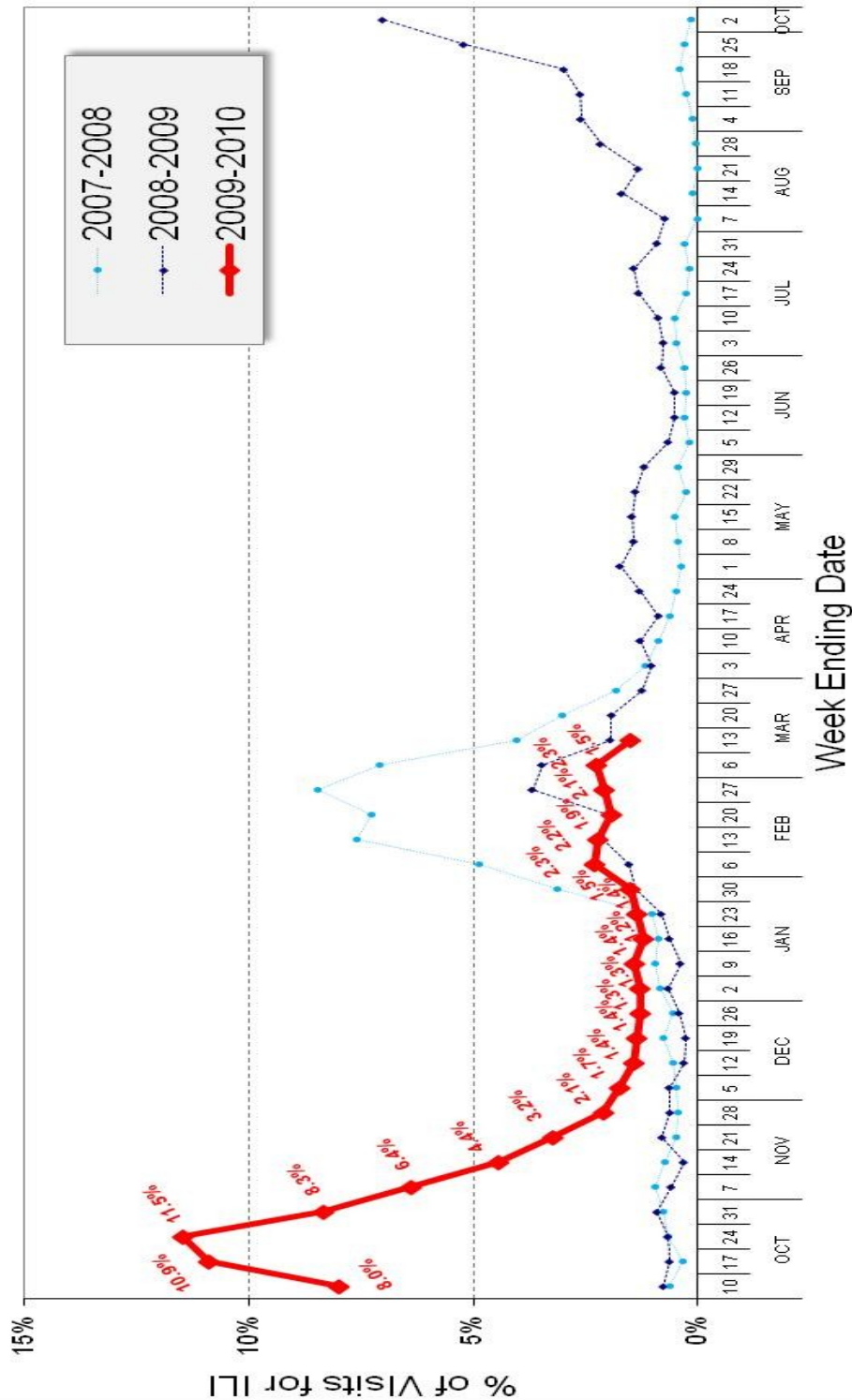
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Data Sources: KS Department of Health and Environment



# Outpatient Influenza-like Illness (Surveillance Conducted via ILINet) Week ending March 13, 2010

Percentage of Visits for Influenza-like Illness (ILI) Reported by ILINet Sites,  
Kansas, October 2009 - September 2010 and Previous Two Seasons



The X-axis represents the week ending dates for the 2009-2010 surveillance year. Data from the previous two surveillance years are plotted according to week number corresponding to the 2009-2010 week ending date. Week 40 of 2009 ended October 10, 2009. Week 40 of 2008 ended October 4, 2008, and week 40 of 2007 ended October 6, 2007, and so on. Week 53 was unique to the 2008-2009 season; data for that week has been excluded from the chart. ILINet sites vary in location, num-

# Outpatient Influenza-like Illness (Surveillance Conducted via ILINet) Week ending March 13, 2010



## Percentage of Visits for Influenza-like Illness (ILI) Reported by ILINet Sites, by Region and Week as Reported on March 13, 2010



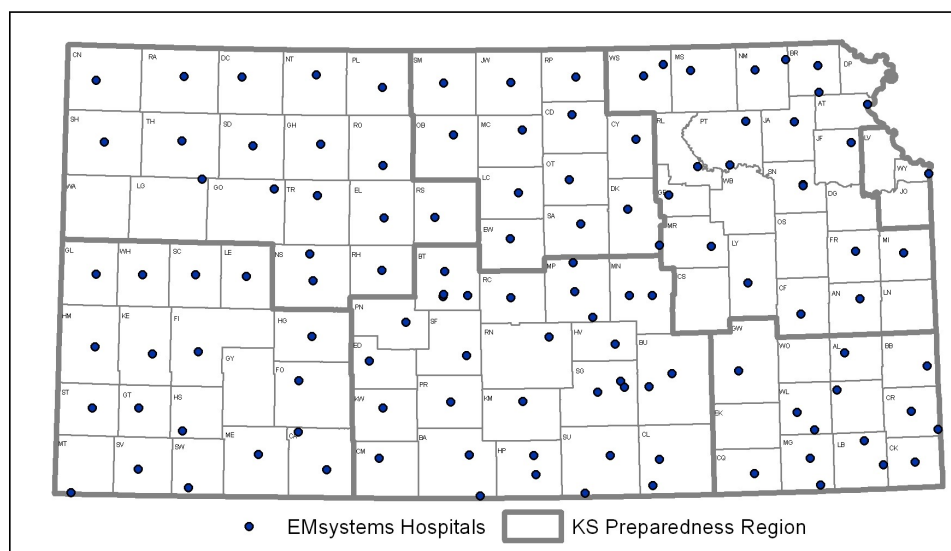
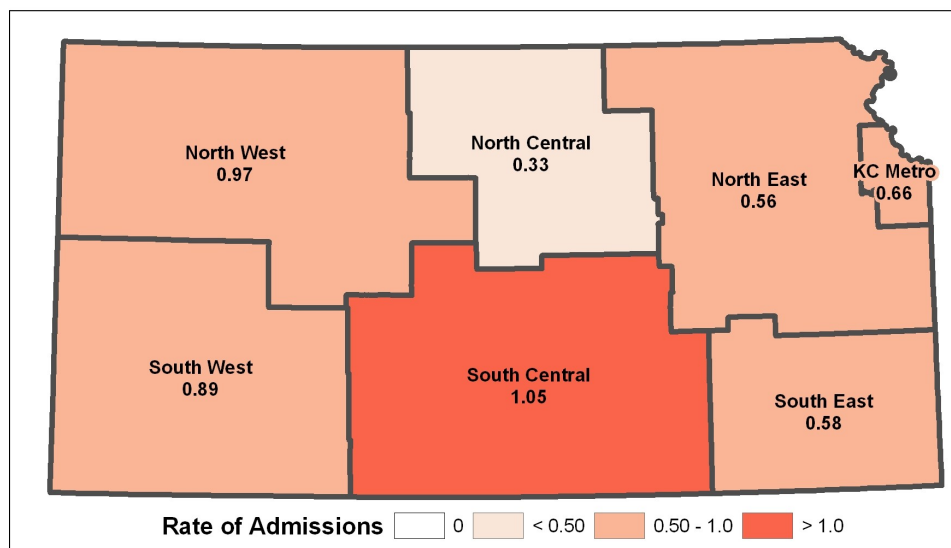
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Data Sources: KS Department of Health and Environment

# Hospital Admissions (Surveillance Conducted via EMSysystems) Week ending March 13, 2010



Rate of Hospitalizations  
due to Pneumonia or Influenza  
per 100 Bed-Days\*  
by Preparedness Region,  
March 7, 2010 - March 13, 2010

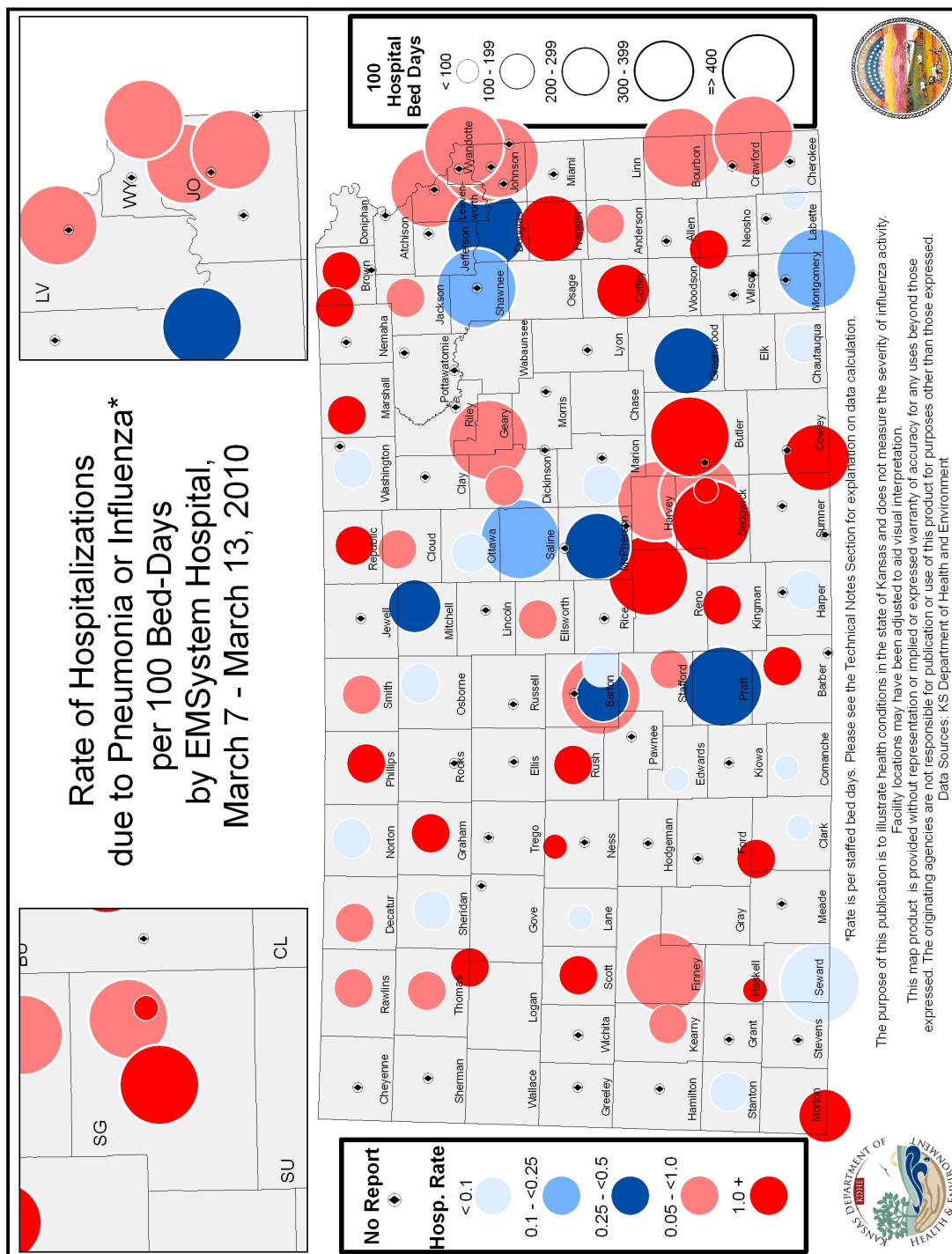


\*Rate is per staffed bed days. Please see the Technical Notes Section for explanation on data calculation.

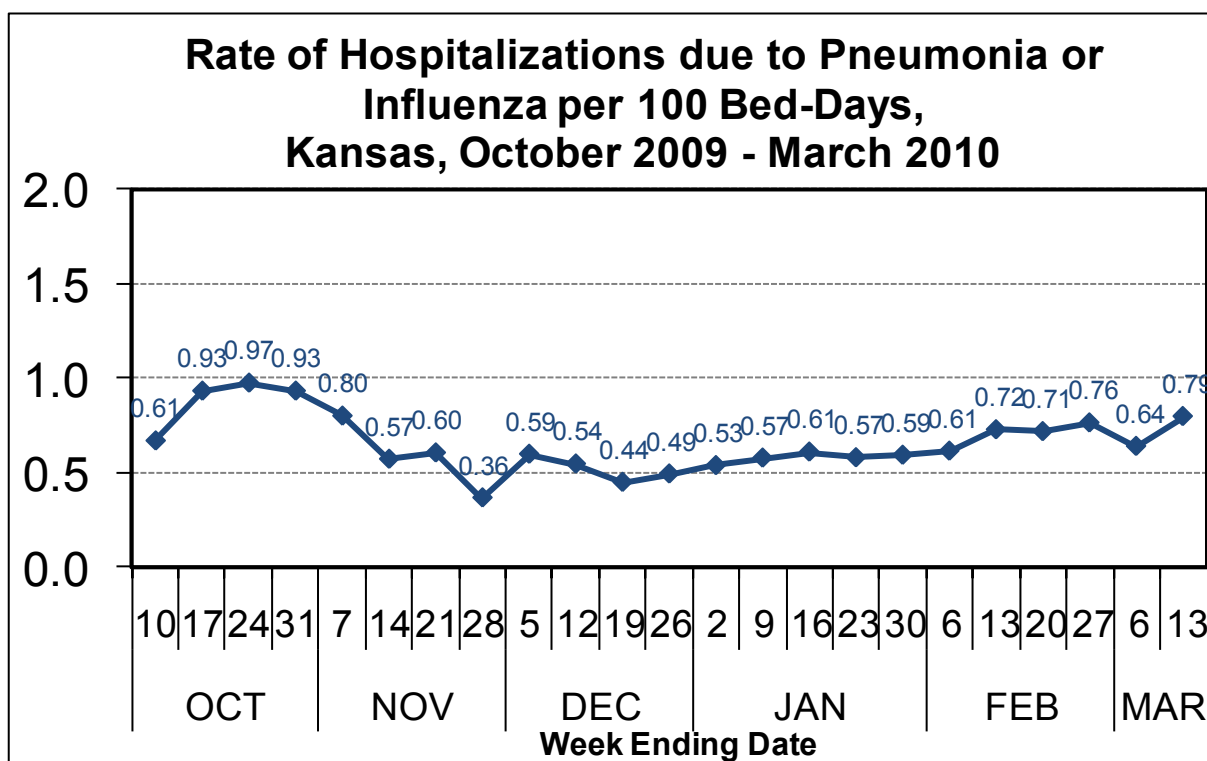
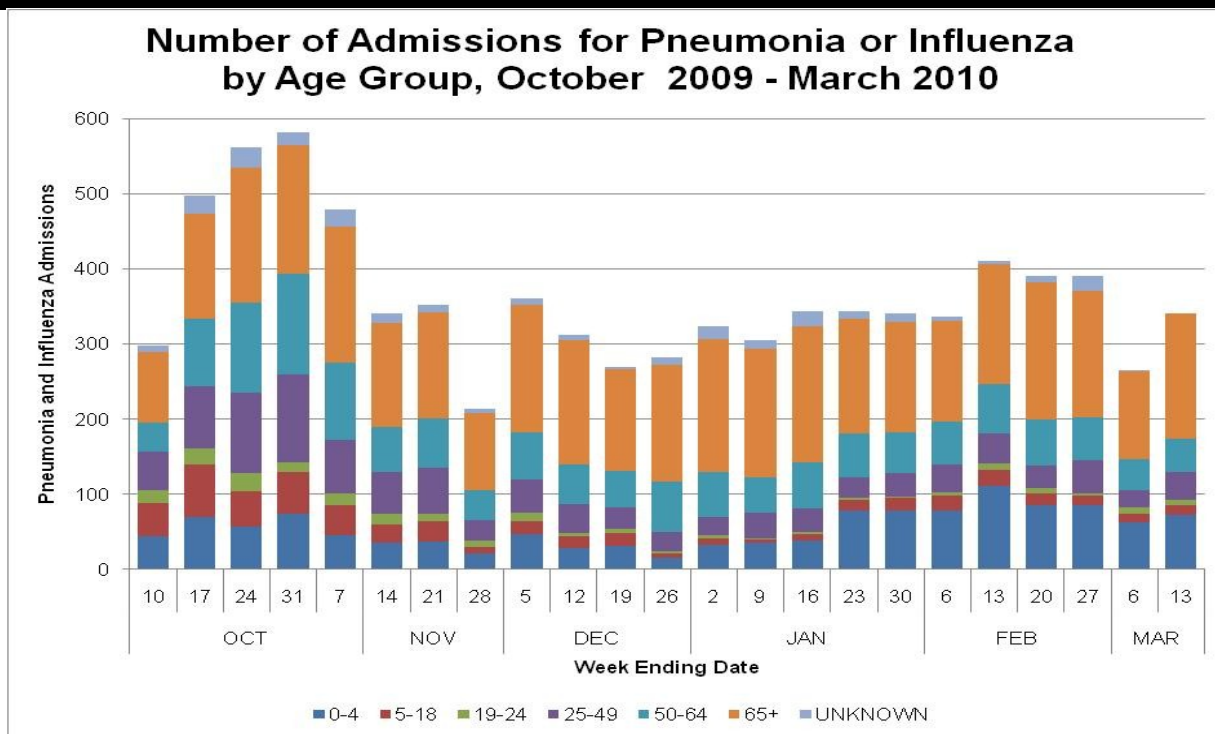
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# Hospital Admissions (Surveillance Conducted via EMSystems) Week ending March 13, 2010



# Hospital Admissions (Surveillance Conducted via EMSystems) Week ending March 13, 2010





# Hospital Admissions (Surveillance Conducted via EMSystems) Week ending March 13, 2010

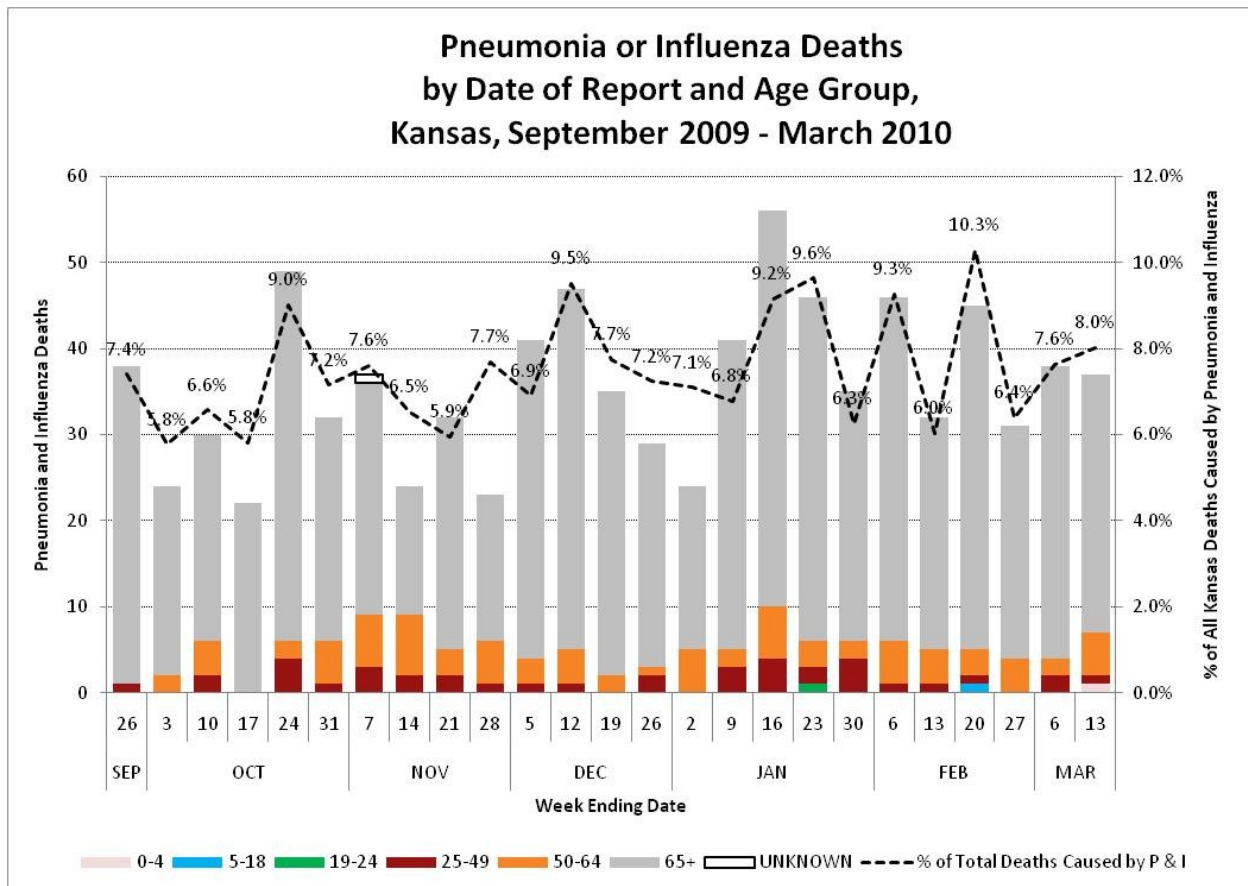


Percentage of Visits  
for Influenza-like Illness (ILI)  
Reported by ILINet Sites, by Region and Week  
as Reported on March 13, 2010



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Data Sources: KS Department of Health and Environment

# Mortality Due to Pneumonia or Influenza (Surveillance Conducted via KDHE Vital Statistics)

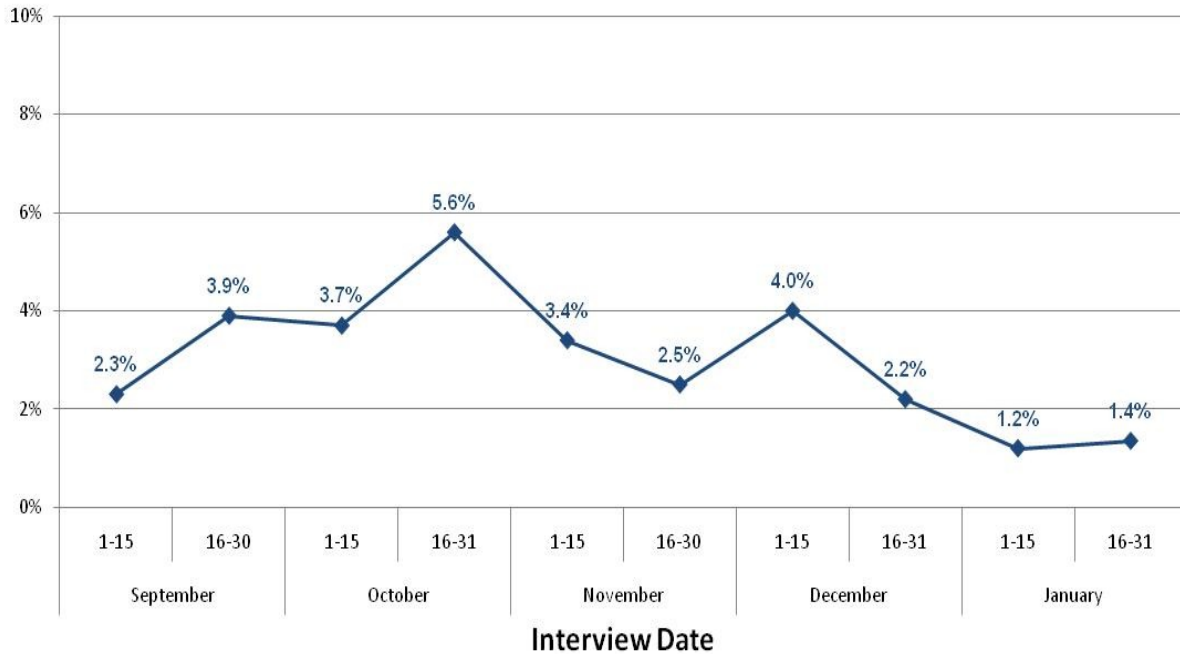


## Cumulative Number of Pneumonia or Influenza Deaths Reported by Age Group, September 26, 2009—March 13, 2010

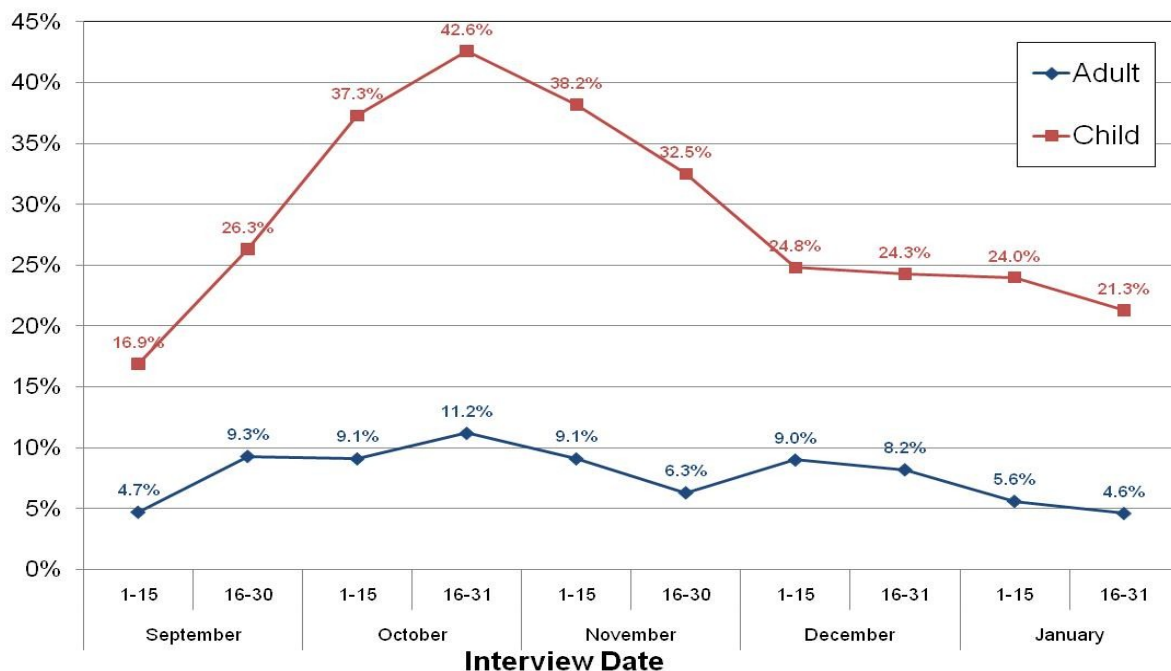
0-4	5-18	19-24	25-49	50-64	65+	Unknown	Total
1	1	1	39	85	766	1	894

# Self-Reported Influenza-like Illness (Surveillance Conducted via KDHE BRFSS)

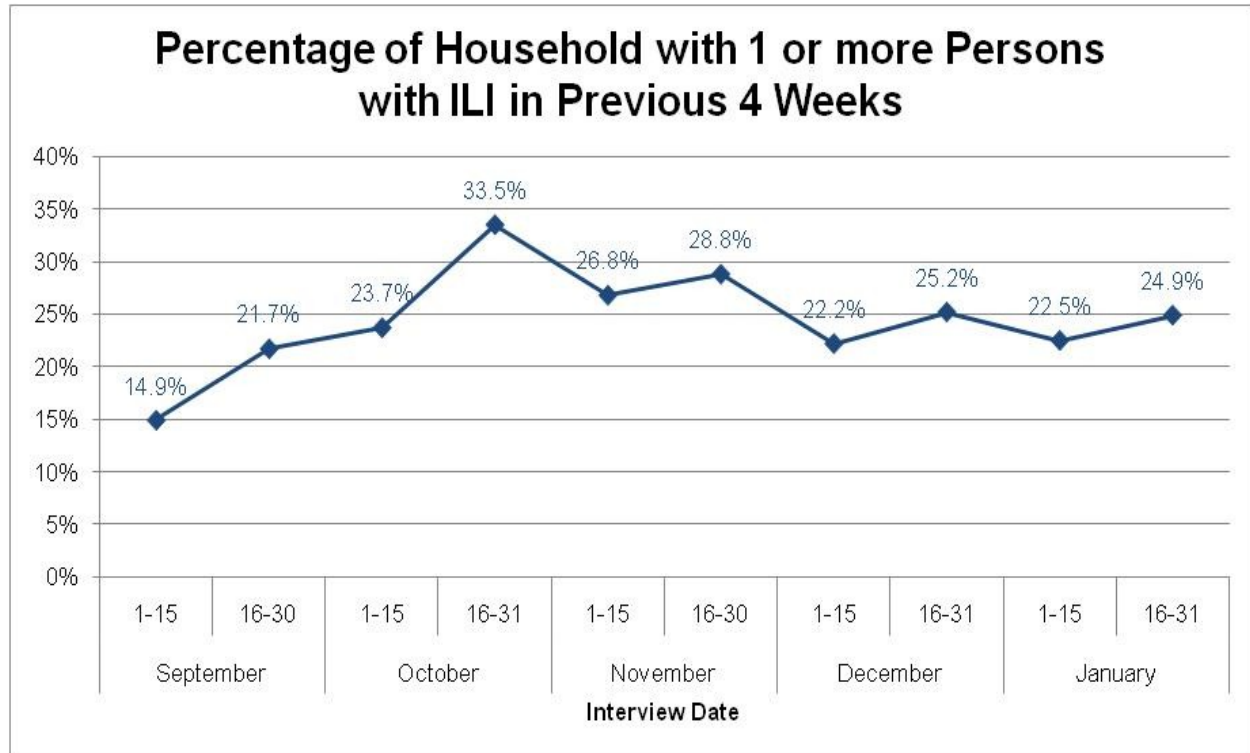
## Percentage of Adults Who Reported ILI in Previous 2 Weeks



## Percentage of Adults and Children Who Reported ILI in Previous 4 Weeks



## Self-Reported Influenza-like Illness (Surveillance Conducted via BRFSS)



Map of Kansas showing the percentage of the population aged 18-24 in each region. The regions and their percentages are:

- NORTH WEST: 7%
- NORTH CENTRAL: 11%
- NORTH EAST: 0%
- KC REGION: 2%
- SOUTH WEST: 4%
- SOUTH CENTRAL: 4%
- SOUTH EAST: 17%

Legend:

- < 20%
- 20% - 29%
- >= 30%

[illegible]

17

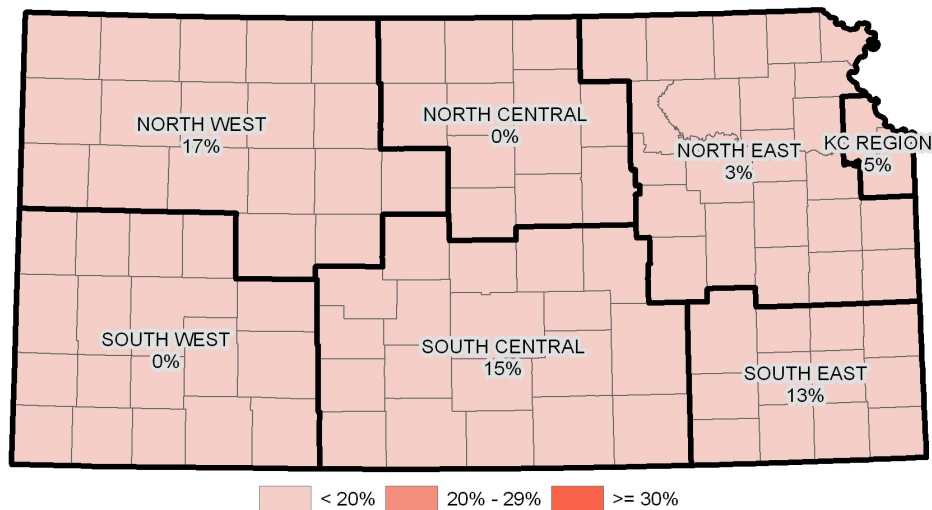
# School Absenteeism (Surveillance Conducted via Health Departments) Week ending March 12, 2010



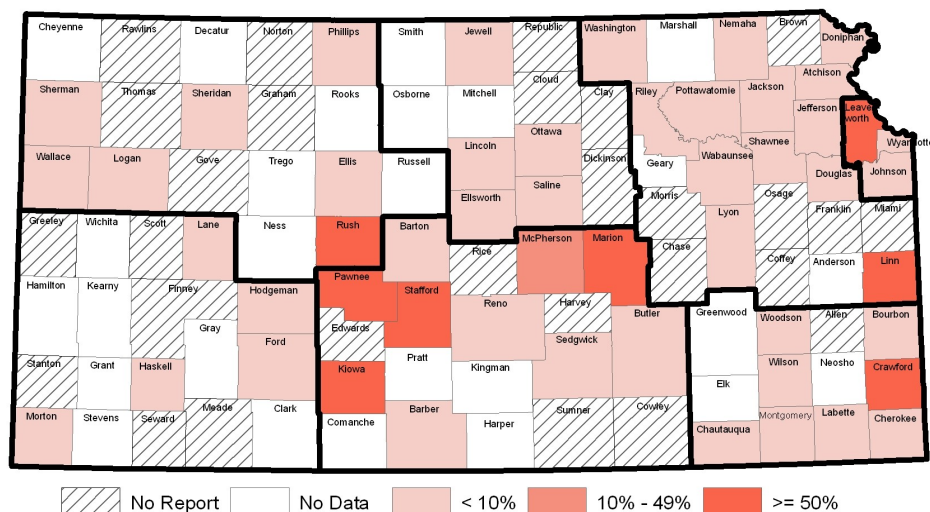
Percentage of Schools Reporting  
10% or Greater Absenteeism  
March 8 - March 12, 2010



## Preparedness Region Summary for Middle Schools



## County Summary for Middle Schools



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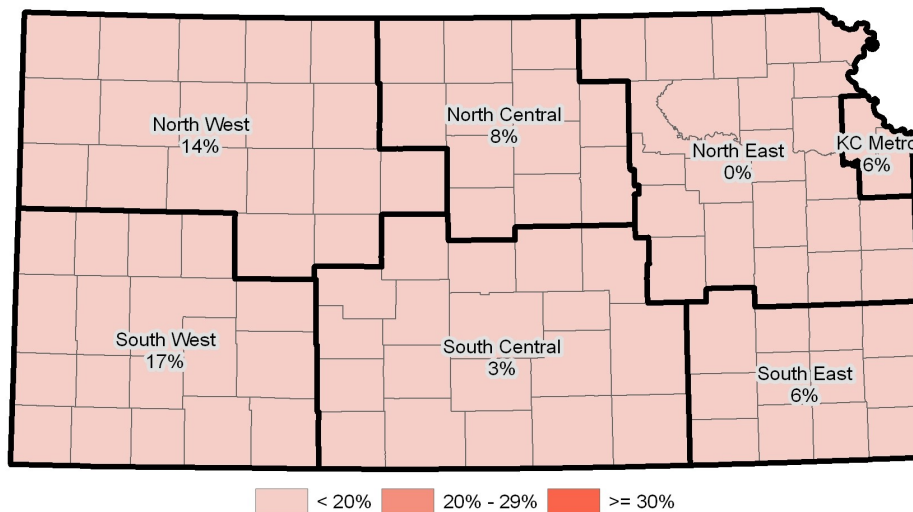
# School Absenteeism (Surveillance Conducted via Health Departments) Week ending March 12, 2010



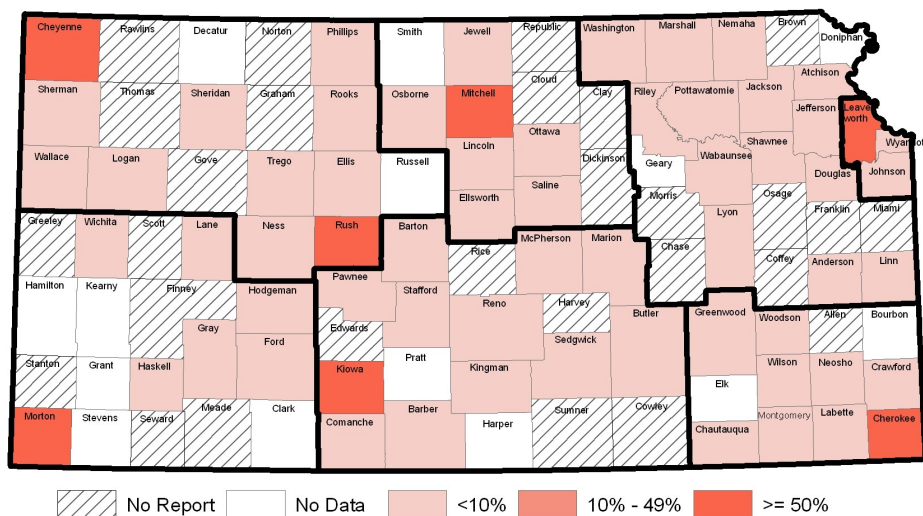
Percentage of Schools Reporting  
10% or Greater Absenteeism  
March 8 - March 12, 2010



## Preparedness Region Summary for High Schools

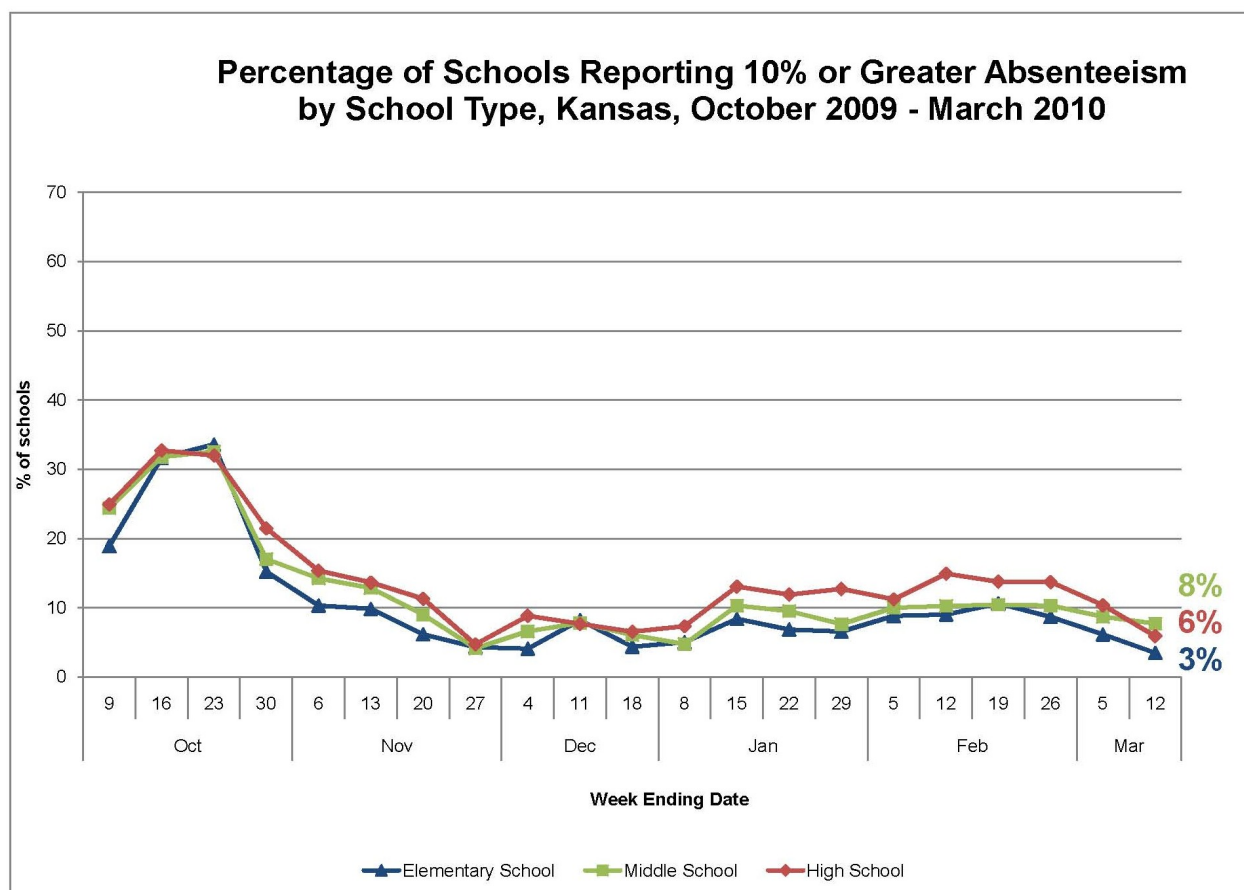


## County Summary for High Schools



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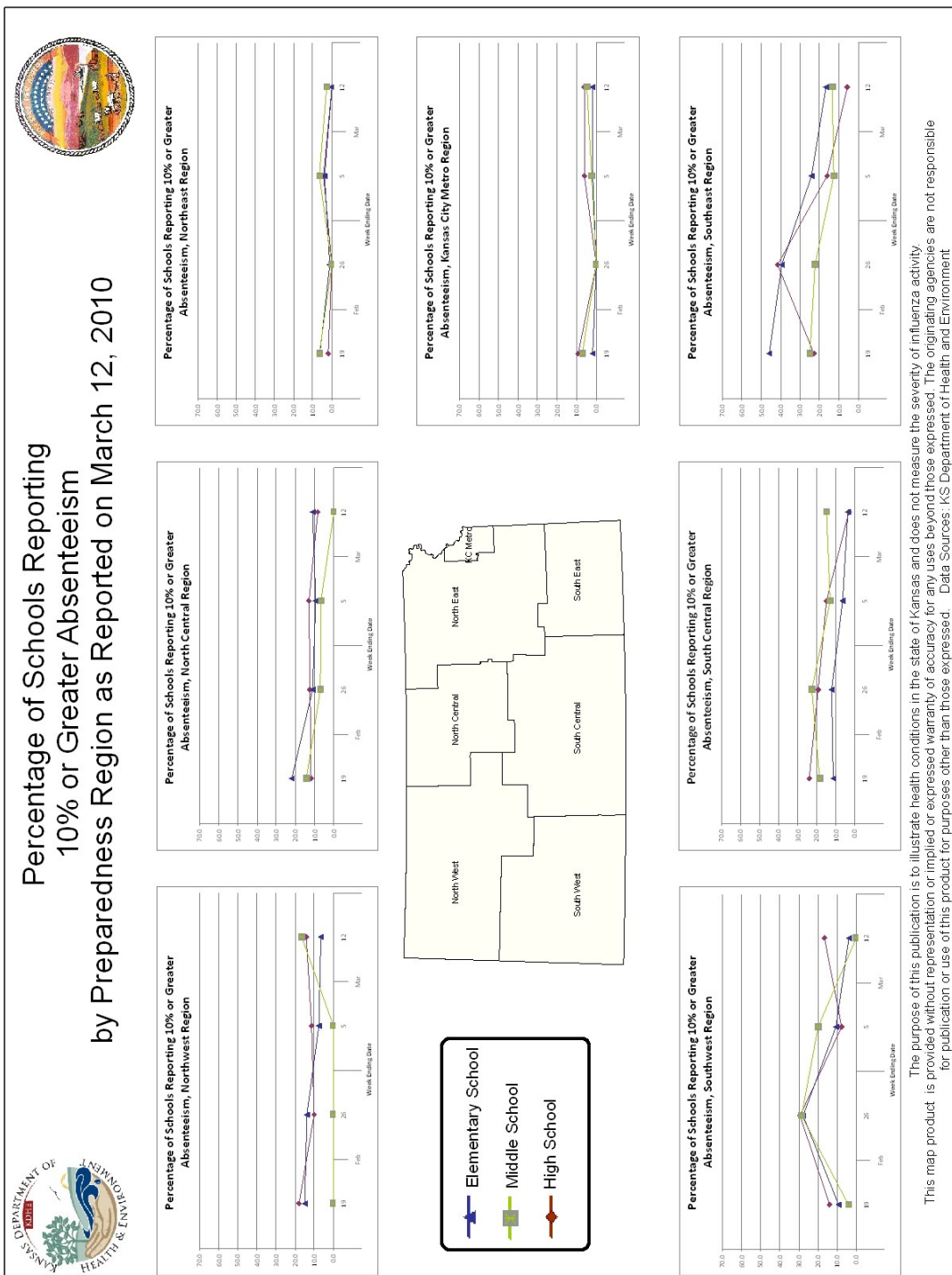
# School Absenteeism (Surveillance Conducted via Health Departments) Week ending March 12, 2010\*



\*No data reported for the week ending December 25, 2009 and January 1, 2010 due to Winter Break.




# School Absenteeism (Surveillance Conducted via Health Departments) Week ending March 12, 2010\*



# Percentage of Schools Reporting 10% or Greater Absenteeism by Category and County, Week ending March 12, 2010

County	Elementary School	Middle School	High School
ALLEN			
ANDERSON	0%		0%
ATCHISON	0%	0%	0%
BARBER	0%	0%	0%
BARTON	0%	0%	0%
BOURBON		0%	
BROWN			
BUTLER	0%	0%	0%
CHASE			
CHAUTAUQUA	0%	0%	0%
CHEROKEE	0%	0%	100%
CHEYENNE	0%		50%
CLARK	100%		
CLAY			
CLOUD			
COFFEY			
COMANCHE	0%		0%
COWLEY			
CRAWFORD	33%	100%	0%
DECATUR			
DICKINSON			
DONIPHAN	0%	0%	
DOUGLAS	0%	0%	0%
EDWARDS			
ELK			
ELLIS	0%	0%	0%
ELLSWORTH	0%	0%	0%
FINNEY			
FORD	0%	0%	0%
FRANKLIN			
GEARY	0%		
GOVE			
GRAHAM			
GRANT	0%		
GRAY	0%		0%

County	Elementary School	Middle School	High School
GREELEY			
GREENWOOD	0%		0%
HAMILTON			
HARPER			
HARVEY			
HASKELL	0%	0%	0%
HODGEMAN	0%	0%	0%
JACKSON	0%	0%	0%
JEFFERSON	0%	0%	0%
JEWELL	0%	0%	0%
JOHNSON	0%	0%	0%
KEARNY	0%		
KINGMAN	0%		0%
KIOWA	33%	100%	50%
LABETTE	0%	0%	0%
LANE	0%	0%	0%
LEAVENWORTH	43%	67%	100%
LINCOLN	0%	0%	0%
LINN	0%	100%	0%
LOGAN	33%	0%	0%
LYON	0%	0%	0%
MARION	0%	50%	0%
MARSHALL	0%		0%
MCPHERSON	0%	25%	0%
MEADE			
MIAMI			
MITCHELL	50%		50%
MONTGOMERY	43%	0%	0%
MORRIS			
MORTON	0%	0%	67%
NEMAHA	0%	0%	0%
NEOSHO	0%		0%
NESS	0%		0%
NORTON			
OSAGE			

 No report or no data available

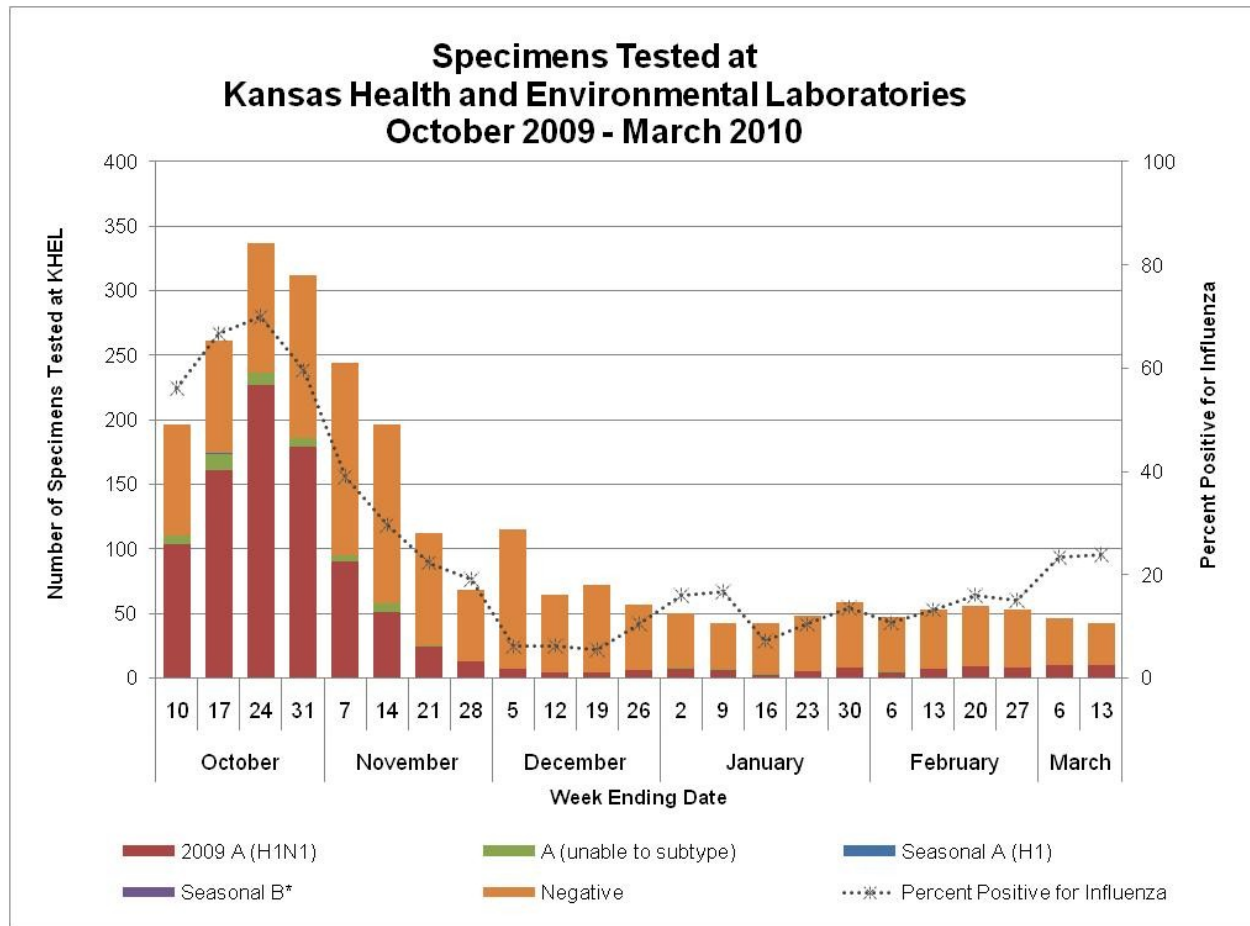
## Percentage of Schools Reporting 10% or Greater Absenteeism by Category and County, Week ending March 5, 2010

County	Elementary School	Middle School	High School
OSBORNE	100%		0%
OTTAWA	0%	0%	0%
PAWNEE	33%	100%	0%
PHILLIPS	0%	0%	0%
POTTAWATOMIE	0%	0%	0%
PRATT			
RAWLINS			
RENO	0%	0%	0%
REPUBLIC			
RICE			
RILEY	0%	0%	0%
ROOKS	0%		0%
RUSH	100%	100%	100%
RUSSELL			
SALINE	0%	0%	0%
SCOTT			
SEDGWICK	3%	0%	0%
SEWARD			
SHAWNEE	0%	0%	0%
SHERIDAN	0%	0%	0%
SHERMAN	0%	0%	0%
SMITH			
STAFFORD	50%	50%	0%
STANTON			
STEVENS	0%		
SUMNER			
THOMAS			
TREGO	0%		0%
WABAUNSEE	0%	0%	0%
WALLACE	0%	0%	0%
WASHINGTON	0%	0%	0%
WICHITA	0%		0%
WILSON	0%	0%	0%
WOODSON	0%	0%	0%
WYANDOTTE	0%	0%	0%



No report or no data available

# Laboratory Testing (Surveillance Conducted via Kansas Health and Environmental Laboratories)



## Kansas Department of Health and Environmental Laboratories October 4, 2009 — March 13, 2010

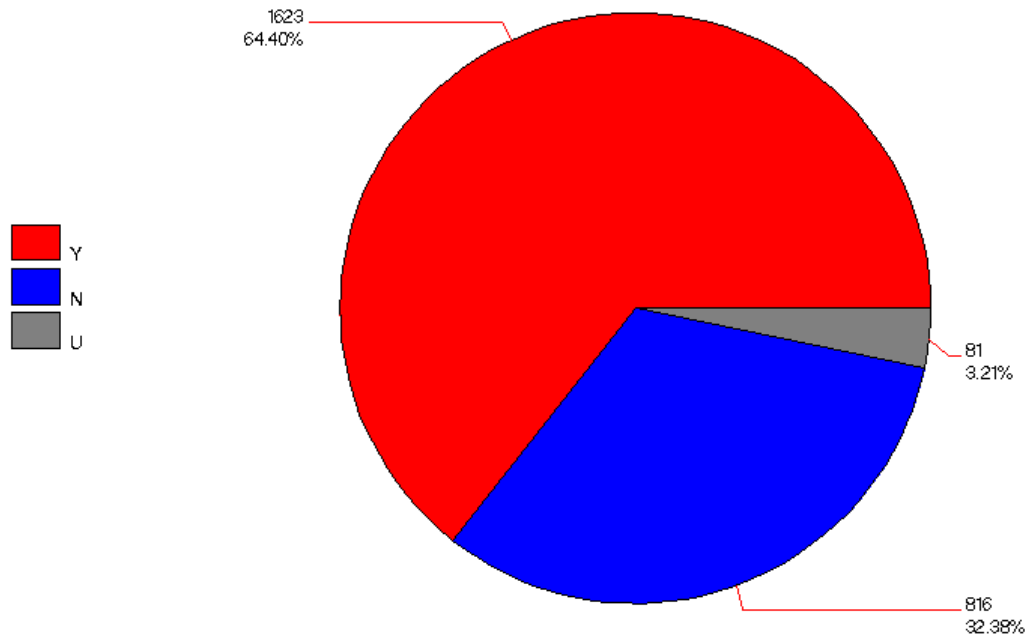
<b>No. of specimens submitted for testing at KHEL</b>	2,573
<b>No. of specimens testing positive for influenza A (2009 H1N1)</b>	946 (37%)

# Laboratory Testing (Surveillance Conducted via Kansas Health and Environmental Laboratories)

## Influenza Specimens Tested at KHEL by Hospitalization Status

October 4, 2009 — March 13, 2010

FREQUENCY of Hospitalized



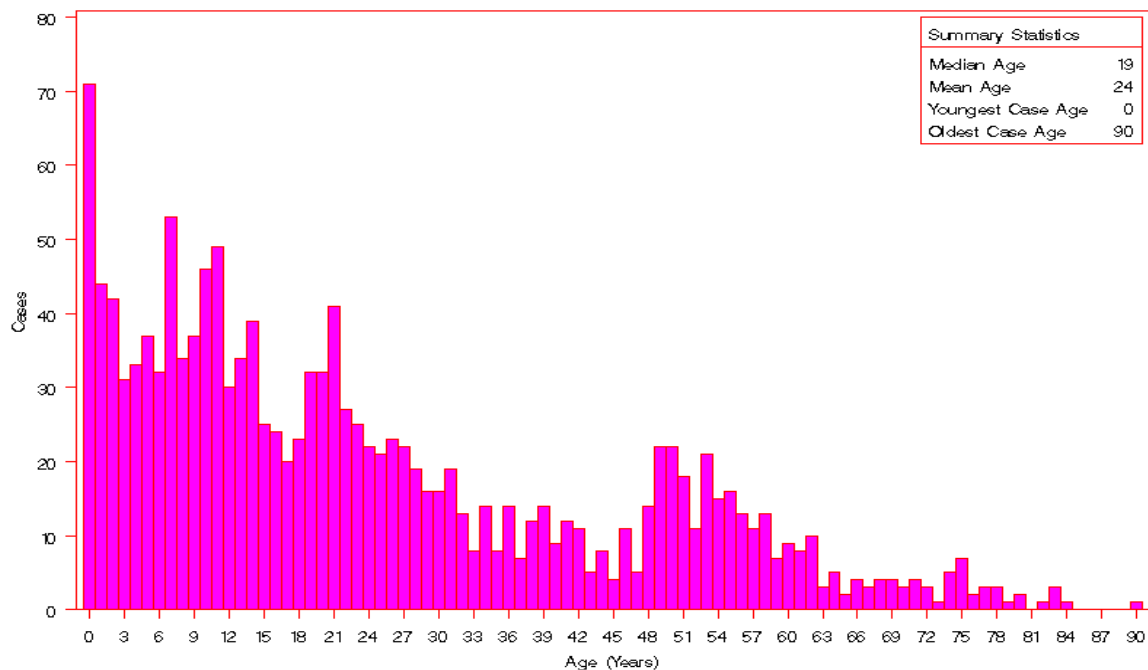


# Descriptive Epidemiology of KHEL-Confirmed H1N1 Cases

## Patient Characteristics for Laboratory-Confirmed H1N1 Cases (N = 1450)

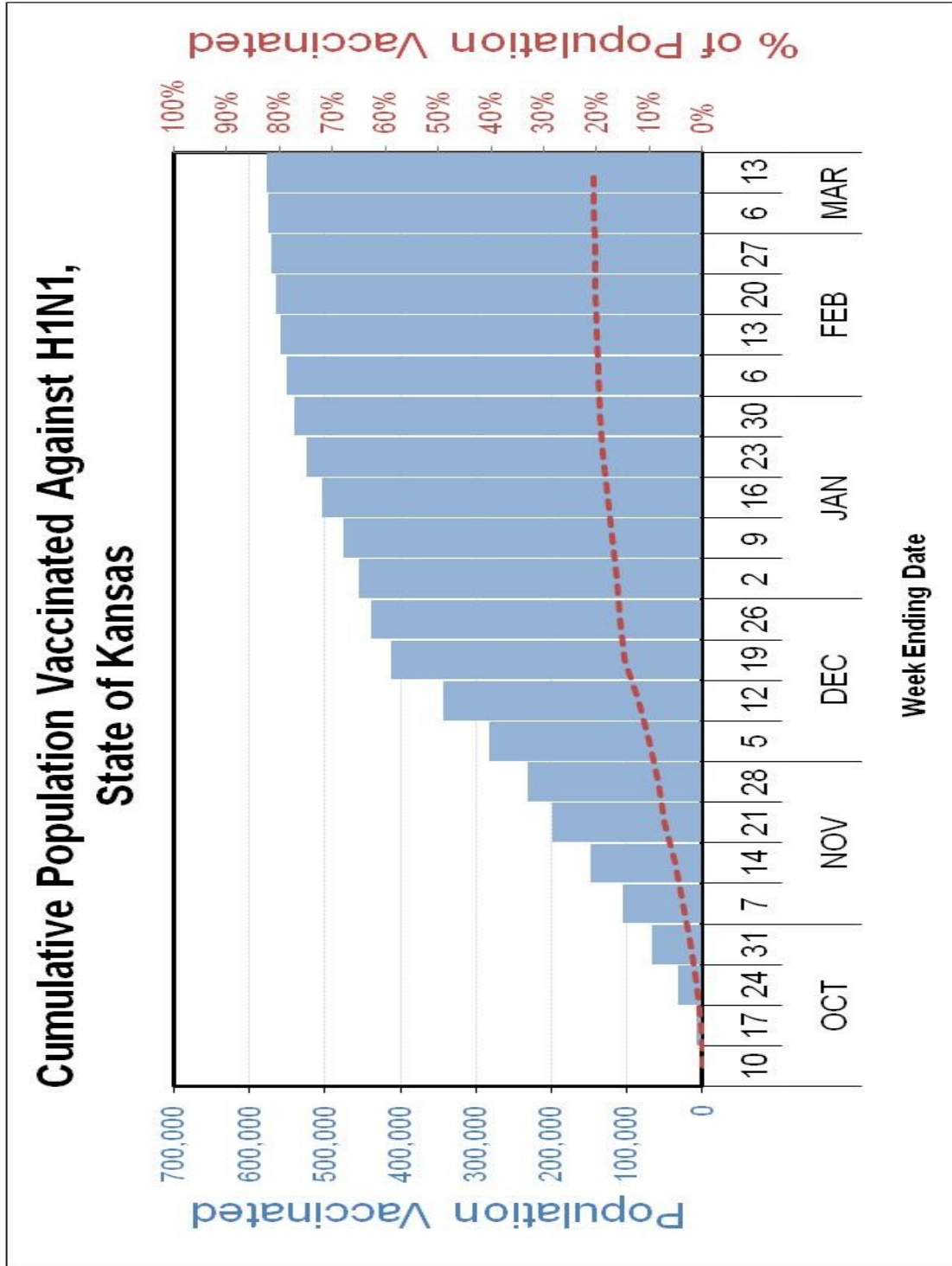
<b>Median Age (Years)</b>	19	
<b>Age Range (Years)</b>	<1 to 90	
<b>Age Groups</b>	<b>Percent (%) of cases</b>	<b>Rate per 100,000 population</b>
<5 Years	15	110
5 to 24 Years	46	84
25 to 49 Years	23	35
50 to 64 Years	13	36
65+ Years	4	16
<b>Male</b>	46	47
<b>Female</b>	54	55
<b>Hispanic or Latino</b>	17	98
<b>Races</b>		
White	73	42
Black	8	59
Asian/Pacific Islander	3	58
American Indian/Alaska Native	<1	18
Mixed Race	2	(unknown)
<b>Hospitalized</b>	49	
<b>Died</b>	2	

## Age Distribution of Laboratory Confirmed Cases as of March 13, 2010





# Population Vaccinated Against 2009 H1N1 Influenza A Virus

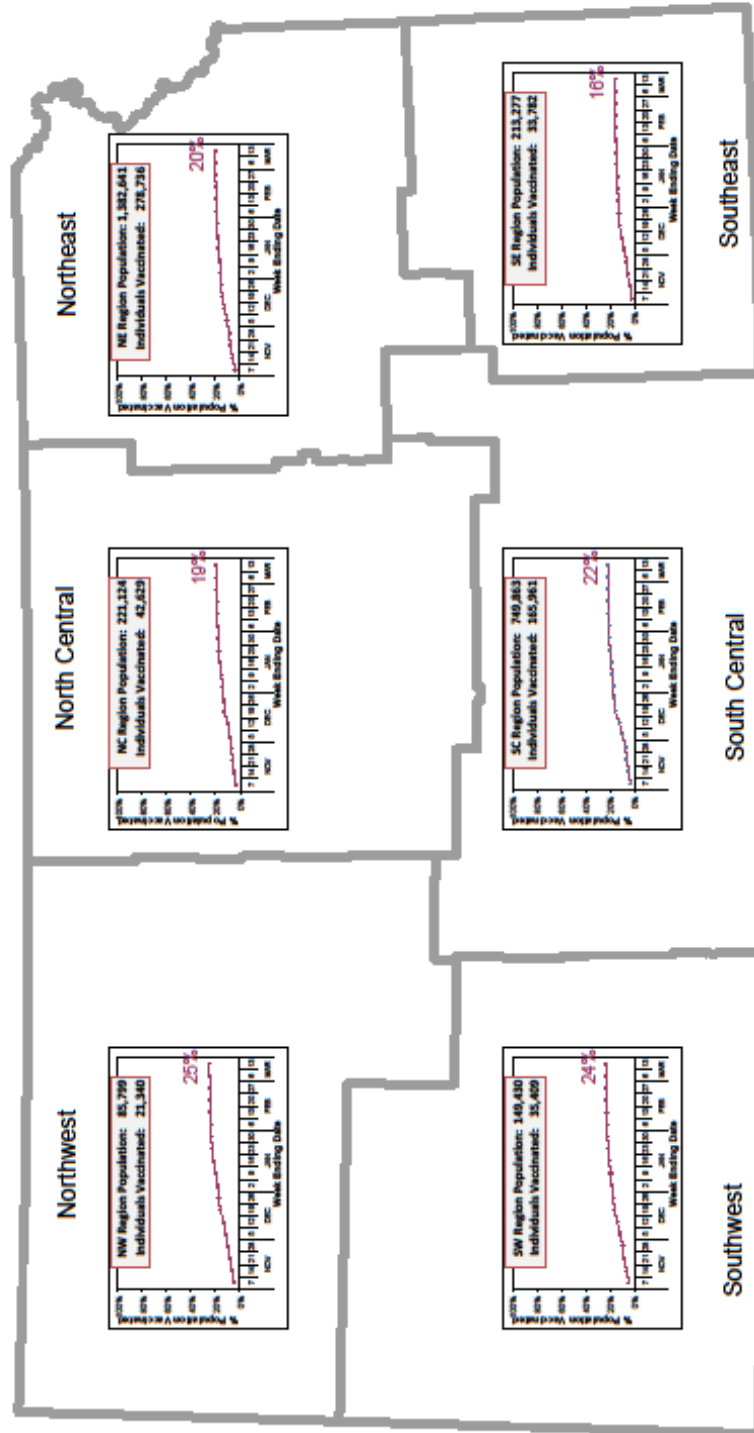




# Population Vaccinated Against 2009 H1N1 Influenza A Virus



Cumulative Population  
Vaccinated Against H1N1,  
by Region and Week  
as Reported on March 13, 2010



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Data Sources: KS Department of Health and Environment

# Technical Notes

## **Outpatient Influenza-like Illness Surveillance (ILINet)**

Information on patient visits to health care providers for influenza-like illness is collected through the US Outpatient Influenza-like Illness Surveillance Network (ILINet). For this system, ILI is defined as fever (temperature of 100°F [37.8°C] or greater) and a cough and/or a sore throat in the absence of a KNOWN cause other than influenza.

ILINet clinics in Kansas report the number of patients seen with influenza-like illness each week. The information reflects data collected for the week ending the previous Saturday. As of January 2, 2010, seventy sites are enrolled in ILINet in Kansas. The maps and charts on pages 6-9 show the percentage of ILI visits reported by region and by site by week ending date. Each percentage was calculated by dividing the number of patients seen with ILI at the clinic by the total number of patients seen and multiplying by 100.

Influenza-like illness data are collected from Sunday through Saturday of each week. Each participating clinic is requested to summarize the data weekly and submit the data by noon on Tuesday of the following week. The information on these charts may change each week because of data that may have been submitted after the reporting deadline.

## **Hospital Admissions for Pneumonia or Influenza Surveillance (EMSystems)**

Hospitals throughout Kansas submit information to the Kansas Hospital Association (KHA) through EM-Systems, a secure, online reporting system. One hundred and thirty-one (131) hospitals that have access to EMSystems are included in this surveillance program. KDHE has partnered with KHA to collect aggregate information on patients hospitalized for pneumonia or influenza.

The maps and graphs on pages 10-13 show the rate of hospital admissions for pneumonia or influenza reported by region and by hospital by week ending date. Each rate was calculated by dividing the number of patients admitted to the hospital with pneumonia or influenza by bed days. The denominator bed days was calculated by multiplying the number of staffed beds by seven.

## **Mortality Due to Pneumonia or Influenza**

The Office of Vital Statistics within the Bureau of Public Health Informatics at KDHE receives and preserves vital records for events (births, deaths, marriages, and divorces) which occur in Kansas. The mortality data on page 14 reflects the number and percentage of persons whose primary or underlying cause of death was attributed to pneumonia and / or influenza.

## **Self-Reported Influenza-like Illness**

The Behavioral Risk Factor Surveillance System (BRFSS), which is coordinated and partially funded by the Centers for Disease Control and Prevention, is the largest continuously conducted telephone survey in the world. It is conducted in every state, the District of Columbia, and several United States territories. The first BRFSS survey in Kansas was conducted as a point-in-time survey in 1990, and Kansas has conducted the BRFSS survey annually since 1992.

Beginning in September 2009, the BRFSS questionnaire was revised to include questions to assess influenza-like illness among adult respondents and other members of the household. The graphs on pages 15 and 16 provide the percent of adults, children, and households reporting ILI.

## **School Absenteeism Surveillance**

Data are collected by local health departments (LHDs) during each school week. LHDs report the number of schools with 10% or greater absenteeism and the total number of schools that submit data each week. LHDs submit data to KDHE by noon on Tuesday of the following week.

## Technical Notes (continued)

### **School Absenteeism Surveillance (continued)**

LHDs report county data in three categories: elementary school (i.e. K-5), middle school (i.e., 6-8), and high school (i.e., 9-12). The designated school category is based upon the majority of grades within the school; for instance, a school consisting of grade levels K-6 would be classified as an elementary school.

Percentages of school absenteeism by county shown on pages 17-23 may be unstable and changes over time should be interpreted with caution. "No report" classification indicates the LHD failed to report any data to KDHE. "No data" classification indicates that either the school(s) did not report any data to the LHD or there are no schools in the county for the specific school category.

### **Laboratory Testing at Kansas Department of Health and Environmental Laboratories (KHEL)**

The information on pages 24-25 represents data reported to KDHE for the week ending the previous Saturday. Prior to September 1, 2009 persons with symptoms consistent with ILI were tested at KHEL. Beginning September 1, specimens were only tested if the person was hospitalized, had died and the cause of death was suspected to be influenza, or if the person was seen at an ILINet Clinic Site.

### **Descriptive Epidemiology for Laboratory-Confirmed H1N1 Cases at KHEL**

The information on pages 26-27 represent data reported to KDHE for the week ending the previous Saturday. Only cases that were laboratory confirmed at KHEL are included.

### **Population Vaccinated Against H1N1 Influenza A Virus**

Vaccination sites throughout Kansas submit information on the number of H1N1 vaccine doses administered each week. The charts on pages 28-29 show the cumulative number of individuals vaccinated at the end of each week in each region of the state, and the cumulative percentage of each region's population that has been immunized. The cumulative numbers and rates may be skewed slightly, as individuals are divided into regions based on the site of vaccination; these charts do not account for individuals who were vaccinated in a region other than the region in which they reside. Vaccine administration data may change each week because of data submitted after the reporting deadline or because of corrections made to previously submitted data.

# Data Quality Indicators

## **Percentage of Sites Represented in the Current Week's Data for the Following Sections:**

Outpatient Influenza-like Illness Surveillance — 77% (54 of 70 ILINet sites)

Hospital Admissions for Pneumonia or Influenza Surveillance (EMSystems) - 54% (71 of 132 hospitals)

School Absenteeism Surveillance— 73% (77 of 105 counties)

## Appendix - Number and County Location of ILINet Clinic Sites

Allen	1
Barton	2
Brown	1
Butler	1
Cherokee	1
Cheyenne	1
Clark	1
Cloud	1
Cowley	1
Crawford	1
Dickinson	3
Douglas	2
Ellis	2
Finney	1
Ford	1
Franklin	1
Geary	2
Grant	2
Greenwood	1
Harvey	1
Jefferson	1
Johnson	5
Kiowa	1
Labette	1
Leavenworth	1
Linn	1
Lyon	2
McPherson	1
Meade	1
Montgomery	2
Neosho	1
Pottawatomie	1
Pratt	1
Reno	2
Riley	3
Saline	2
Sedgwick	6
Seward	2
Shawnee	
Sherman	1
Wichita	1
Wyandotte	6

## Appendix - List of Hospitals Included in Hospital Surveillance Section for Current Report

ANDERSON COUNTY HOSPITAL GARNETT	MERCY HOSPITAL MOUNDRIDGE
BOB WILSON MEM GRANT CO HOSP ULYSSES	MERCY REGIONAL HEALTH CENTER MANHATTAN
CENTRAL KANSAS MEDICAL CTR GREAT BEND	MIAMI COUNTY MEDICAL CENTER PAOLA
CHEYENNE COUNTY HOSPITAL SAINT FRANCIS	MINNEOLA DISTRICT HOSPITAL
CLOUD COUNTY HEALTH CENTER CONCORDIA	MITCHELL COUNTY HOSPITAL BELOIT
COFFEY COUNTY HOSPITAL BURLINGTON	MT. CARMEL REG MEDICAL CTR PITTSBURG
COFFEYVILLE REGIONAL MEDICAL CENTER	NEOSHO MEMORIAL RMC CHANUTE
COMANCHE COUNTY HOSPITAL COLDWATER	NESS COUNTY HOSPITAL DIST. NO. 2
COMMUNITY MEMORIAL HC MARYSVILLE	NEWMAN REGIONAL HEALTH EMPORIA
CUSHING MEMORIAL HOSPITAL	NINNESCAH VALLEY HEALTH SYS. KINGMAN
DECATUR COUNTY HOSPITAL OBERLIN	OLATHE MEDICAL CENTER
EDWARDS CO. HOSP. AND HC CTR. KINSLEY	OSWEGO COMMUNITY HOSPITAL
ELLINWOOD DISTRICT HOSPITAL	OTTAWA COUNTY HEALTH CENTER MINNEAPOLIS
ELLSWORTH COUNTY MEDICAL CENTER	PHILLIPS COUNTY HOSPITAL PHILLIPSBURG
FREDONIA REGIONAL HOSPITAL	PROMISE REGIONAL MEDICAL CENTER HUTCHINS
GALICHIA HEART HOSPITAL	RANSOM MEMORIAL HOSPITAL OTTAWA
GEARY COMMUNITY HOSPITAL JUNCTION CITY	RAWLINS COUNTY HEALTH CENTER ATWOOD
GOVE COUNTY MEDICAL CENTER QUINTER	ROBERT J. DOLE VA MEDICAL CTR WICHITA
GRAHAM COUNTY HOSPITAL HILL CITY	ROOKS COUNTY HEALTH CENTER PLAINVILLE
GREAT BEND REGIONAL HOSPITAL	SABETHA COMMUNITY HOSPITAL
GREENWOOD COUNTY HOSPITAL EUREKA	SAINT LUKE'S SOUTH HOSPITAL
GRISSELL MEM. HOSP. DIST. NO. 1 RANSOM	SALINA REGIONAL HEALTH CENTER
HARPER COUNTY HOSP DIST NO 6 ANTHONY	SATANTA DISTRICT HOSPITAL AND LTCU
HERINGTON MUNICIPAL HOSPITAL	SCOTT COUNTY HOSPITAL
HIAWATHA COMMUNITY HOSPITAL	SHAWNEE MISSION MEDICAL CENTER
HILLSBORO COMMUNITY HOSPITAL	SHERIDAN COUNTY HEALTH COMPLEX HOXIE
HODGEMAN CO HEALTH CENTER JETMORE	SMITH COUNTY MEMORIAL HOSPITAL
HOLTON COMMUNITY HOSPITAL	SOUTHWEST MEDICAL CENTER LIBERAL
HORTON COMMUNITY HOSPITAL	ST. CATHERINE HOSPITAL GARDEN CITY
JEFFERSON CO. MEM. HOSPITAL WINCHESTER	ST. FRANCIS HEALTH CENTER TOPEKA
JEWELL COUNTY HOSPITAL MANKATO	ST. LUKE HOSPITAL AND LIVING CTR MARION
KANSAS MEDICAL CENTER ANDOVER	STAFFORD DISTRICT HOSPITAL
KEARNY COUNTY HOSPITAL LAKIN	STANTON HEALTH CARE FACILITY JOHNSON
KIOWA COUNTY MEM. HOSPITAL GREENSBURG	STORMONT VAIL HEALTHCARE TOPEKA
KIOWA DISTRICT HOSPITAL KIOWA	SUSAN B. ALLEN MEM. HOSPITAL EL DORADO
LABETTE HEALTH PARSONS	TREGO CO. LEMKE MEM. HOSPITAL WAKEENEY
LANE COUNTY HOSPITAL DIGHTON	UNIVERSITY OF KANSAS HOSPITAL
LAWRENCE MEMORIAL HOSPITAL	VIA CHRISTI REGIONAL MED CTR WICHITA
LOGAN COUNTY HOSPITAL OAKLEY	WAMEGO CITY HOSPITAL
MEDICINE LODGE MEMORIAL HOSPITAL	WASHINGTON COUNTY HOSPITAL
MEMORIAL HOSPITAL ABILENE	WESLEY MEDICAL CENTER WICHITA
MEMORIAL HOSPITAL MCPHERSON	WICHITA COUNTY HEALTH CENTER LEOTI